

SET V_1 - VOLTAGE OF FIRST ERASE PULSE.
 SET ΔV - VOLTAGE INCREMENT AT EACH SUCCESSIVE ERASE PULSE.
 SET t - TIME DURATION OF EACH ERASE PULSE.
 SET I_3 - CELL CONDUCTANCE IN FULLY ERASED STATE.
 SET n_{MAX} - MAXIMUM NUMBER OF ERASE PULSES PER CYCLE.
 N - NUMBER OF BITS NOT FULLY ERASED.
 SET X - MAXIMUM NUMBER OF BITS NOT FULLY ERASED WHICH IS ACCEPTABLE TO SYSTEM.
 S - NUMBER OF FULL ERASE CYCLES EXPERIENCED BY THE BLOCK.

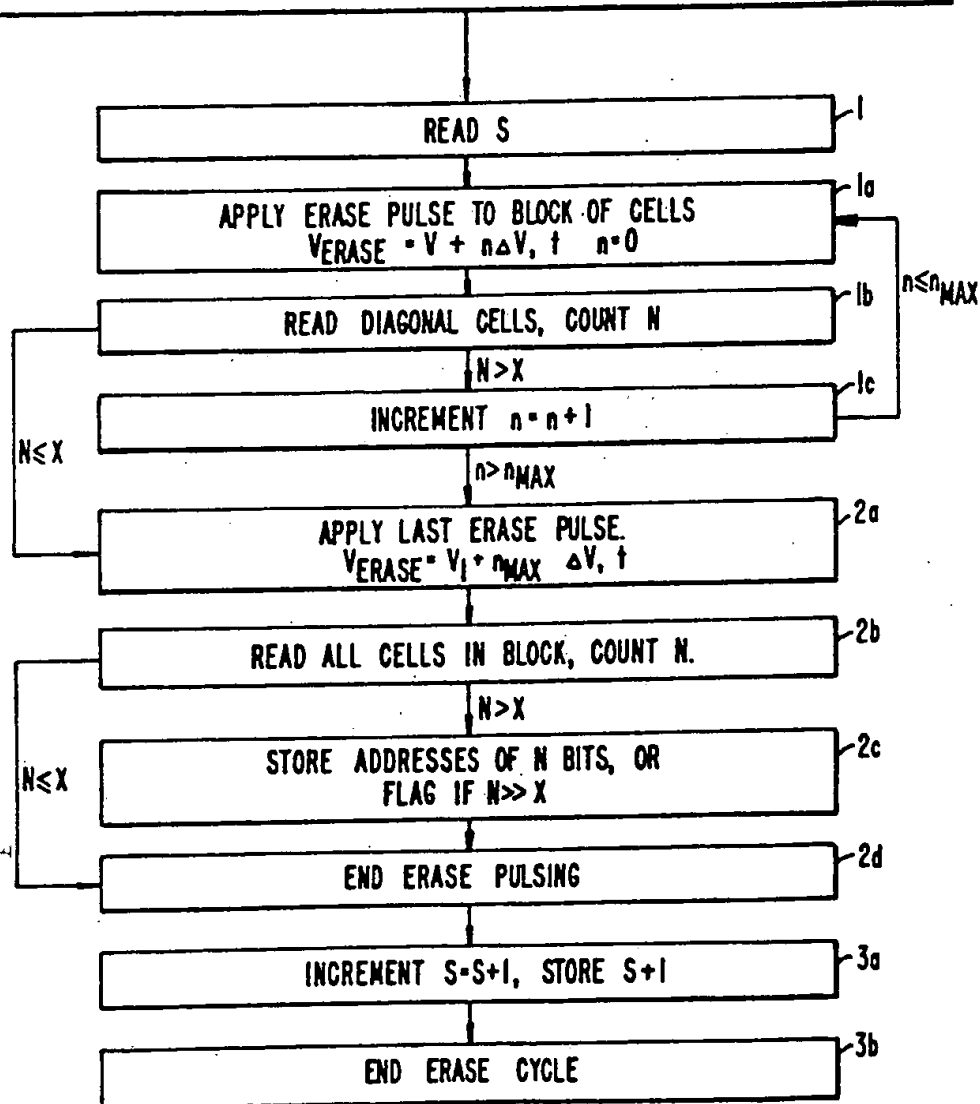


FIGURE 9

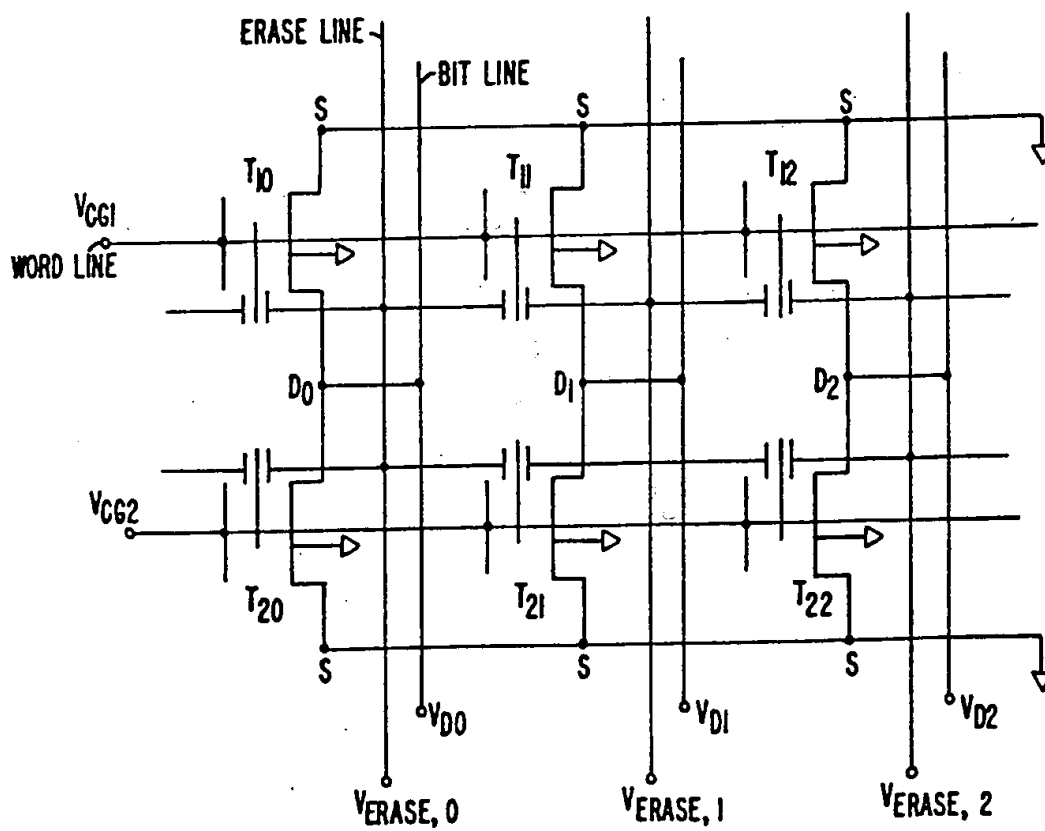
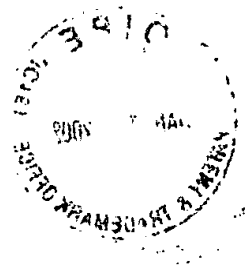


FIGURE 10

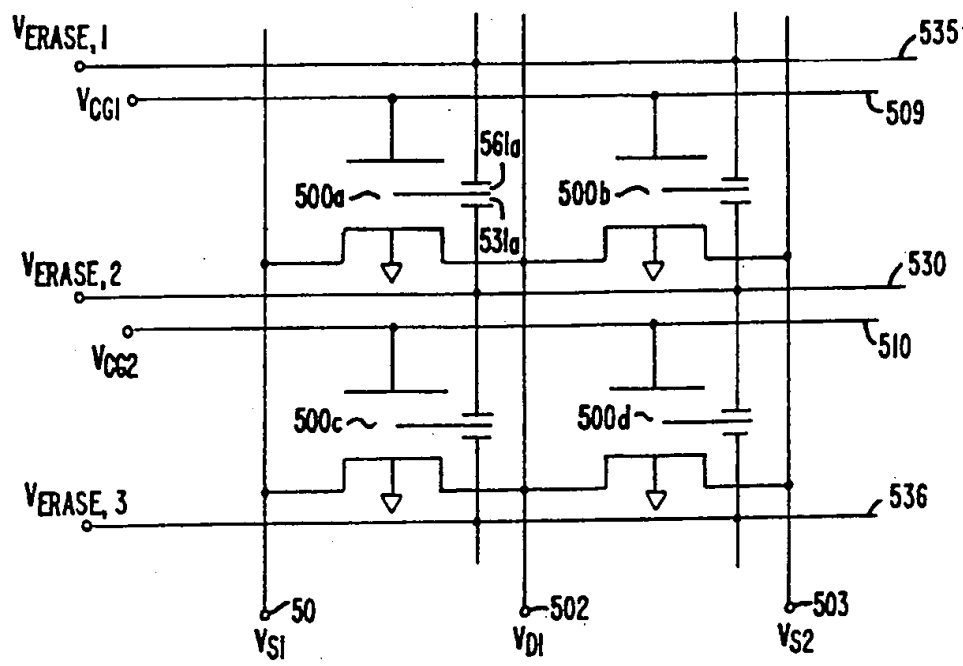


FIGURE 11

TABLE I. ARRAY OF FIGURE 10

	V_{CC}				V_D				S			V_{ERASE}		
	SEL. CELL	UNSEL. CELL		SEL. CELL	UNSEL. CELL	SAME ROW	SAME COL.	SEL. CELL	UNSEL. CELL	SAME ROW	SAME COL.	SEL. CELL	SAME ROW	SAME COL.
		SAME ROW	SAME COL.											
READ	5V	5V	0V	1.5V	0V	0V	1.5V	0V	0V	0V	0V	0V	0V	0V
ERASE	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	0V	20V	20V (BLOCK)	20V (ERASE)
PROGRAM	12V	12V	0V	8V	0V	0V	8V	0V	0V	0V	0V	0V	0V	0V

FIGURE 12



TABLE II. VIRTUAL GROUND ARRAY OF FIGURE 11

	V _{CG}			V _D			S			VERASE		
	SEL. CELL	UNSEL. CELL		SEL. CELL	UNSEL. CELL		SEL. CELL	UNSEL. CELL		SEL. CELL	UNSEL. CELL	
		SAME ROW	SAME COL		SAME ROW	SAME COL		SAME ROW	SAME COL		SAME ROW	SAME COL
READ	5V	5V	0V	1.5V	1.5V	1.5V	0V	1.5V	0V	0V	0V	0V
ERASE	0V	0V	0V	0V	0V	0V	0V	0V	0V	20V	20V (BLOCK)	20V (ERASE)
PROGRAM	12V	12V	0V	8V	FLOAT	8V	-0V	FLOAT	-0V	0V	0V	0V

FIGURE 13

